Beam Power Tube

NOVAR TYPE For Color-TV Horizontal-Deflection Amplifier Applications CENERAL DATA

	GENERAL DATA				
	Electrical:				
- .	Heater Characteristics and Ratings: Voltage (AC or DC)				
	respect to cathode 200 max. volts				
_	Heater positive with respect to cathode				
	Grid No.1 to plate 0.44 pf Grid No.1 to cathode, grid No.3,				
	grid No.2, and heater 21.0 pf Plate to cathode, grid No.3,				
	grid No.2, and heater				
	Characteristics, Class A; Amplifier:				
	Triode Pentode				
	Connection Connection				
	Plate Voltage				
	Mechanical:				
<u> </u>	Operating Position. Any Type of Cathode Coated Unipotential Maximum Overall Length 4.600" Seated Length 1.438" to 1.30" Diameter 1.438" to 1.562" Bulb 5mall (JEDEC No.C1-1) Socket 5mall (JEDEC No.C1-1) Socket Connot Mfg. Connot Mfg. Connot No. 149 Industrial Electronic Hardware Corp. No. S0-0968-SL1, or equivalent				

Base Large Button Novar 9-Pin (JEDEC No.E9-76) Basing Designation for BOTTOM VIEW					
Pin 1-Grid No.2 Pin 2-Grid No.1 Pin 3-Cathode Pin 4-Heater Pin 5-Heater	3 7	Pin 6 - Grid No.1 Pin 7 - Grid No.2 Pin 8 - Grid No.3 Pin 9 - Do Not Use Cap - Plate			

HORIZONTAL-DEFLECTION AMPLIFIER

Maximum Ratings, Design-Maximum Values
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For operation in a 525-line,	30-frame system ^d				
DC PLATE-SUPPLY VOLTAGE	990 max. volts				
PEAK POSITIVE-PULSE PLATE VOLTAGE.	7000 max. volts				
PEAK NEGATIVE-PULSE PLATE VOLTAGE .	1100 max. volts				
DC GRID-No.3 VOLTAGE	_				
(See Operating Considerations)					
DC GRID-No.2 (SCREEN-GRID) VOLTAGE.	190 max. volts				
PEAK NEGATIVE-PULSE GRID-No.1	_				
(CONTROL-GRID) VOLTAGE	250 max. volts				
CATHODE CURRENT:					
Peak					
Average					
GRID-No.2 INPUT	3.2 max. watts				
PLATE DISSIPATION	24 max. watts				
BULB TEMPERATURE					
(At hottest point on bulb surface	e) 240 max. OC				
Maximum Circuit Values:					

Grid-No.1-Circuit Resistance: For grid-resistor bias operation f . . . 0.47 max. megohm For plate-pulsed operation (horizontal-deflection circuits only). 10 max. megohms

f a The dc component must not exceed 100 volts.

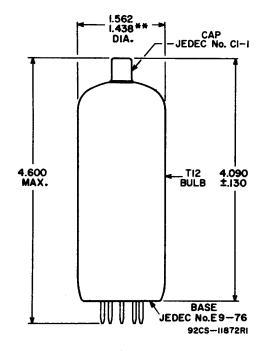
b Without external shield.

This value can be measured by a method involving a recurrent wave form such that the plate dissipation, grid-No.2 input, and cathode current will be kept within ratings in order to prevent damage to the tube.

d As described in "Standards of Good Engineering Practice Concerning Television Broadcast Stations", Federal Communications Commission.

This rating is applicable where the duration of the voltage pulse does not exceed 15 per cent of one horizontal scanning cycle. In a 525-line, 30-frame system, 15 per cent of one horizontal scanning cycle is 10 microseconds.

It is essential that the plate dissipation be limited in the event of loss of grid signal. For this purpose, some protective means such as a cathode resistor of suitable value should be employed.



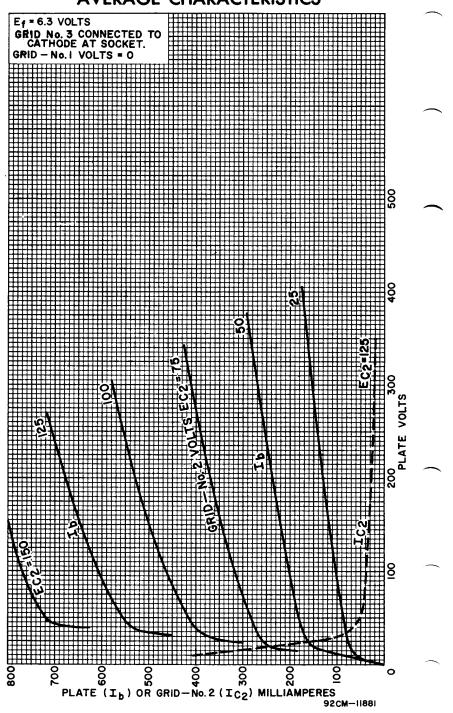
ALL DIMENSIONS IN INCHES

** APPLIES IN ZONE STARTING 0.375" FROM BASE SEAT.

OPERATING CONSIDERATIONS

In horizontal-deflection amplifier service a positive voltage may be applied to grid No.3 to minimize "snivets" interference which may occur in both uhf and vhf television receivers. A typical value for this voltage is 30 volts.

AVERAGE CHARACTERISTICS



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